

DIAZAPHOSPHACYCLES

ABSTRACT OF THE DISCLOSURE

A diazaphosphacycle may be synthesized by reacting a phosphine

5 with a diimine and optionally one or more equivalents of an acid halide, a sulfonyl halide, a phosphoryl halide, or an acid anhydride in the substantial absence of O₂ to form the diazaphosphacycle. The phosphine has the formula R¹-PH₂ where R¹ is a substituted or unsubstituted aryl group, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted cycloalkyl group, or a substituted or unsubstituted ferrocenyl group.

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